Nitrogen (Ammonia or TKN) by Titrimetric, Following Distillation Page 1 of 1 SM 19 th /20 th /21 st Ed. 4500-NH3 B+C						
Facility Name:	VELAP ID					
Assessor Name: Analyst Name:	Inspection Date					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments	
Records Examined: SOP Number/ Revision/ Date	Analyst:					
Sample ID: Date of Sample Prepara	ation: Date			of Analysis:		
Are all samples distilled prior to titration? 40CFR136 allows distillation by EPA 350.1 Rev. 2.0, SM18, 19, 20, 21Ed. 4500-NH $_3$ B, SM online 4500-NH $_3$ B-97, and AOAC 973.49.	4500-NH ₃ C.1					
Distillation: Is 500-mL dechlorinated sample or for < 100 mg/L 1000-mL sample used?	4500-NH ₃ B 4.b					
Is 25-mL Boric Acid added and pH adjusted to 9.5 with 6N NaOH using a pH meter?	4500-NH ₃ B 4.b					
Is distillation rate 6 to 10 mL/min with tip of the delivery tube below the surface of 50-mL boric acid solution?	4500-NH ₃ B 4.c					
Is at least 200-mL collected and then diluted to 500-mL?	4500-NH ₃ B 4.c					
Titration: Is ammonia-free water used in making all reagents and dilutions?	4500-NH ₃ C.3					
Are mixed indicator solution and indicating boric acid solution prepared at least monthly?	4500-NH ₃ C.3					
Is sample determined as: 5-10 mg/L level use 250 mL; 10-20 mg/L use 100 mL; 20-50 mg/L use 50.0 mL; 50-100 mg/L use 25.0 mL	4500-NH ₃ C.1					
Is $0.02N\ H_2SO_4$ titrant standardized to $0.0200N\ per\ SM19th\ Ed.\ 2320B.3c,$ or is $0.0200N\ titrant\ purchased?$ If standardizing, use the amount of Na2CO3 that has been incorporated into the indicating boric acid solution.	4500-NH ₃ C.3.c					
For sludge or sediment samples, is wet portion weighed and distilled, collecting 100 mL distillate for titration? The amount weighed is equivalent to approximately 1 g dry weight.	4500-NH ₃ C.4.b					
Are samples titrated with 0.02N H ₂ SO ₄ titrant until indicator turns pale lavender?	4500-NH ₃ C.4.c					
Is a blank carried through all steps of the procedure, and is the necessary correction applied to the results?	4500-NH ₃ C.4.d					
Notes/Comments:						